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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1.-35. (Canceled)

36. (Previously Presented) A method of identifying an inhibitor of a glycosyltransferase that transfers a monosaccharide from a sugar nucleotide to an acceptor substrate, the method comprising

contacting the glycosyltransferase, an acceptor substrate, and a donor substrate with a hydrophobic, non-carbohydrate test compound that inhibits interaction of a sugar with hydrophobic amino acids in the active site of the glycosyltransferase and

determining the degree to which the activity of the glycosyltransferase is inhibited in the presence of the test compound.

37. (Previously Presented) The method of claim 36, wherein the activity of the glycosyltransferase is determined using an antibody that is specifically immunoreactive with a product of the reaction catalyzed by the glycosyltransferase.

38. (Previously Presented) The method of claim 37, which is an ELISA format.

39. (Previously Presented) The method of claim 36, wherein the glycosyltransferase is expressed in a recombinant cell.

40. (Previously Presented) The method of claim 36, wherein the donor substrate or acceptor substrate is labeled.

41. (Withdrawn) The method of claim 40, wherein the label is a radioactive label.

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42. (Withdrawn) The method of claim 41, which is a radioactive column assay.

43. (Previously Presented) The method of claim 40, wherein the label is a fluorescent label.

44. (Previously Presented) The method of claim 36, wherein the glycosyltransferase is a fucosyltransferase.

45. (Withdrawn) The method claim 36, wherein the glycosyltransferase is a sialyltransferase.

46. (Withdrawn) The method claim 36, wherein the glycosyltransferase is an *N*-acetylglucosaminyltransferase.

47. (Canceled) The method of claim 36, wherein the compound comprises an aromatic or aliphatic ring structure.

48. (Withdrawn) The method of claim 36, wherein the compound comprises an aryl moiety.

49. (Previously Presented) The method claim 36, wherein the compound comprises a heteroaryl moiety.

50. (Previously Amended) The method of claim 49, wherein the heteroaryl moiety is selected from the group consisting of a thiophene, pyridine, isoxazole, phthalimide, pyrazole, indole, quinoline, phenothiazine, carbazole, benzopyranone, and a furan group.

51. (New) The method of claim 36, wherein the hydrophobic, non-carbohydrate test compound comprises a member selected from the group consisting of a heteroaryl moiety having from 5 to 16 ring members wherein from 1 to 3 ring members are each independently selected from the group consisting of N, O and S wherein the heteroaryl ring

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structure is optionally substituted, and an aliphatic ring structure having from 3 to 7 ring members and is optionally substituted.

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